

In the Claims

1. (currently amended) A vector useful for transformation of a target plastid of a higher plant species, said vector comprising an expression cassette comprising as operably linked components, a promoter operative in the target plastid, a selectable marker sequence, at least one DNA sequence encoding at least an immunologically active portion of ~~an immunoglobulin multimeric chain~~ Guy's 13 murine antibody, a transcription termination region functional in the target plastid, and on each of the 5N and 3N ends of said expression cassette DNA sequences which are homologous to a part of the target plastid genome of a higher plant species.

2. (currently amended) The vector of claim 1, wherein said ~~immunoglobulin multimeric chain~~ comprises a heavy chain DNA sequence encodes a humanized Guy's 13 antibody.

Claims 3-10 (cancelled)

Claims 11-27 (cancelled)

28. (currently amended) A method for producing ~~immunoglobulin multimeric~~ a protein in a plastid, said method comprising:

introducing a plastid expression vector into a plant cell of a higher plant species having a target plastid,

said plastid expression vector comprising as operably linked components

a DNA sequence containing at least one plastid replication origin functional in the target plastid,

a transcriptional initiation region functional in the target plastid,

at least one heterologous DNA sequence encoding at least an immunologically active portion of ~~an immunoglobulin multimeric chain~~ a Guy's 13 antibody,

and

a transcriptional termination region functional in the target plasmid, whereby said heterologous DNA is introduced into the target plastid in the plant cell; and wherein ~~a multimeric immunoglobulin~~ at least an immunologically active portion of a Guy's 13 antibody is produced.

29. (currently amended) The method of claim 28, wherein said ~~immunoglobulin multimeric chain comprises a heavy chain~~ heterologous DNA sequence encodes a humanized Guy's 13 antibody.

Claims 30-33 (cancelled)

Claims 34-40 (cancelled)

Claims 41-43 (cancelled)

Claims 44-50 (cancelled)